

IN THE CLAIMS

Please amend the claims as follows:

1-9. (Canceled)

10. (Currently Amended): An irradiated resin molded article for medical applications obtained which is crosslinked by irradiating, with an electron beam, [[a]] said resin molded article comprising

100 parts by weight of (A) syndiotactic 1,2-polybutadiene having a crystallinity of 5% or more,

0 parts by weight of (B) at least one thermoplastic polymer selected from the group of polypropylene, a styrene-butadiene-styrene block copolymer, a styrene-isoprene-styrene block copolymer, a hydrogenerated styrene-butadiene-styrene block copolymer, a hydrogenated styrene-isoprene-styrene block co-polymer, a polybutadiene other than the syndiotactic 1,2-polybutadiene, an acrylonitrile-butadiene-styrene resin, a polyisoprene, a polyethylene, an ethylene-vinyl acetate copolymer, an ethylene-acrylate ester copolymer and an ethylene-methacrylate copolymer,

with the proviso that (A)+(B)=100 parts by weight,

in which the irradiation dose of the electron beam is from 5 to 200 in Mrad,

in which the energy of the electron beam is from 20 to 5,000 kV,

wherein the tensile stress at the 50% point of the tensile strength curve of the irradiated resin molded article, as measured in MPa, is from 1.01 to 2.5 times the tensile stress at the 50% point of the tensile strength curve, as measured in MPa, of the resin molded article, and

wherein the irradiated resin molded article has steam sterilization resistance.

11. (Previously Presented): The irradiated resin molded article according to claim 10, which has transparency that the haze value of a 2-mm sheet is 50 or less.

12. (Previously Presented): The irradiated resin molded article according to claim 11, which has a toluene insoluble matter after the electron beam irradiation of 50 to 99% by weight.

13. (Previously Presented): The irradiated resin molded article according to claim 12, wherein the shape of the molded article is at least one selected from the group of a tube, a sheet, a film, a bag and a connector.

14. (Previously Presented): The irradiated resin molded article according to claim 13, which is for medical applications.

15. (Previously Presented): The irradiated resin molded article according to claim 14, which has a halogen atom content of 50 ppm or less.

16. (Previously Presented): The irradiated resin molded article according to claim 10, which has a toluene insoluble matter after the electron beam irradiation of 50 to 99% by weight.

17. (Previously Presented): The irradiated resin molded article according to claim 10, wherein as for electron beam dose, the product of electron beam acceleration voltage in kV and irradiation dose in Mrad is from 2 to 1,000,000 kVMrad.

18. (Previously Presented): The irradiated resin molded article according to claim 17, which has transparency that the haze value of a 2-mm sheet is 50 or less.

19. (Canceled).

20. (Previously Presented): The irradiated resin molded article according to claim 10, which has a halogen atom content of 50 ppm or less.

21. (Previously Presented): The irradiated resin molded article according to claim 10, wherein the shape of the molded article is at least one selected from the group of a tube, a sheet, a film, a bag and a connector.

Claims 22-23. (Canceled).

24. (Previously Presented): The irradiated resin molded article according to claim 10, which has a halogen atom content of 50 ppm or less.

25. (Canceled).

26. (Currently Amended): A processed product obtained by processing an irradiated resin molded article obtained by irradiating a resin molded article, with an electron beam, the resin molded article comprising

100 parts by weight of (A) syndiotactic 1,2-polybutadiene having a crystallinity of 5% or more, and

0 parts by weight of (B) at least one thermoplastic polymer selected from the group of polypropylene, a styrene-butadiene-styrene block copolymer, a styrene-isoprene-styrene block copolymer, a hydrogenerated styrene-butadiene-styrene block copolymer, a hydrogenated styrene-isoprene-styrene block copolymer, a polybutadiene other than the syndiotactic 1,2-polybutadiene, an acrylonitrile-butadiene-styrene resin, a polyisoprene, a polyethylene, an ethylene-vinyl acetate copolymer, an ethylene-acrylate ester copolymer and an ethylene-methacrylate copolymer,

with the proviso that  $(A)+(B)=100$  parts by weight

in which the irradiation dose of the electron beam is from 5 to 200 in Mrad,

wherein the tensile stress at the 50% point of the tensile strength curve of the irradiated molded article, as measured in MPa, is from 1.01 to 2.5 times the tensile stress at the 50% point of the tensile strength curve, as measured in MPa, of the resin molded article, and

wherein the irradiated molded article has steam sterilization resistance.

27. (Canceled).